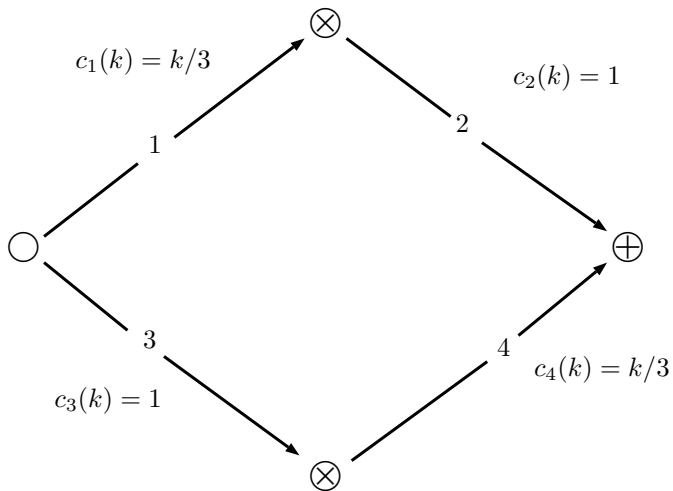


Advanced Microeconomics

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Exercises 5

Exercise 1 Consider the following traffic network.



- Identify for each commuter the strategies.
- Further suppose that there are 2 commuters. Represent this game as a bimatrix game.
- Determine the Nash equilibria.

Short solutions.

Solution 1 a. Strategy 1 is route choice 1 – 2. Strategy 2 is route choice 3 – 4.

b. $\begin{pmatrix} 5/3; 5/3 & 4/3; 4/3 \\ 4/3; 4/3 & 5/3; 5/3 \end{pmatrix}$.

c. This game has two Nash equilibria: (1, 2) and (2, 1). In each Nash equilibrium each player has costs $4/3$.